What is claimed is:

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- 1. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 12 to nucleotide 800;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 78 to nucleotide 800;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1 from nucleotide 1 to nucleotide 547;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bh389_11 deposited under accession number ATCC 98451;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bh389_11 deposited under accession number ATCC 98451;
- 15 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bh389_11 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bh389_11 deposited under accession number ATCC 98451;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence 20 of SEQ ID NO:2;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:2 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:2;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
 25 above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 2. The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 3. A host cell transformed with the polynucleotide of claim 2.
- 35 4. The host cell of claim 3, wherein said cell is a mammalian cell.
 - 5. A process for producing a protein encoded by the polynucleotide of claim 2, which process comprises:

- (a) growing a culture of the host cell of claim 3 in a suitable culture medium; and
 - (b) purifying said protein from the culture.
- 5 6. A protein produced according to the process of claim 5.
 - 7. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:2;

- 10 (b) the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 178;
 - (c) fragments of the amino acid sequence of SEQ ID NO:2 comprising eight consecutive amino acids of SEQ ID NO:2; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bh389_11
 15 deposited under accession number ATCC 98451;
 the protein being substantially free from other mammalian proteins.
 - 8. The protein of claim 7, wherein said protein comprises the amino acid sequence of SEQ ID NO:2.
 - 9. The protein of claim 7, wherein said protein comprises the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 178.
- 10. A composition comprising the protein of claim 7 and a pharmaceutically25 acceptable carrier.
 - 11. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:1.
 - 12. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 100 to nucleotide 882;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 635 to nucleotide 867;
- 35 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bk112_15 deposited under accession number ATCC 98451;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bk112_15 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451;

- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:4;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino
 10 acid sequence of SEQ ID NO:4 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:4;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 13. A protein comprising an amino acid sequence selected from the group 20 consisting of:
 - (a) the amino acid sequence of SEQ ID NO:4;
 - (b) the amino acid sequence of SEQ ID NO:4 from amino acid 200 to amino acid 256;
- (c) fragments of the amino acid sequence of SEQ ID NO:4 comprising eight consecutive amino acids of SEQ ID NO:4; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bk112_15 deposited under accession number ATCC 98451; the protein being substantially free from other mammalian proteins.
- 30 14. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:3.
 - 15. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5 from nucleotide 245 to nucleotide 520;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:5 from nucleotide 181 to nucleotide 527;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bk200_13 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;

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- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bk200_13 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:6;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:6 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:6;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 16. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:6;
 - (b) fragments of the amino acid sequence of SEQ ID NO:6 comprising eight consecutive amino acids of SEQ ID NO:6; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone bk200_13 deposited under accession number ATCC 98451;

the protein being substantially free from other mammalian proteins.

- 17. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:5.
- 18. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 365 to nucleotide 784;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 518 to nucleotide 784;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone di386_3 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone di386_3 deposited under accession number ATCC 98451;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone di386_3 deposited under accession number ATCC 98451;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone di386_3 deposited under accession number ATCC 98451;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:8;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:8 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:8;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 19. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:8;

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- (b) the amino acid sequence of SEQ ID NO:8 from amino acid 1 to amino acid 140;
- (c) fragments of the amino acid sequence of SEQ ID NO:8 comprising eight consecutive amino acids of SEQ ID NO:8; and
- (d) the amino acid sequence encoded by the cDNA insert of clone di386_3
 30 deposited under accession number ATCC 98451;
 the protein being substantially free from other mammalian proteins.
 - 20. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:7 and SEQ ID NO:9.
 - 21. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 191 to nucleotide 781;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 56 to nucleotide 492;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone em397_2 deposited under accession number ATCC 98451;

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- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone em397_2 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:11;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:11 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:11;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 22. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:11;
- (b) the amino acid sequence of SEQ ID NO:11 from amino acid 1 to amino 30 acid 101;
 - (c) fragments of the amino acid sequence of SEQ ID NO:11 comprising eight consecutive amino acids of SEQ ID NO:11; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone em397_2 deposited under accession number ATCC 98451;
- the protein being substantially free from other mammalian proteins.
 - 23. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:10.

24. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 65 to nucleotide 1636;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 482 to nucleotide 1636;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 487 to nucleotide 1006;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone fh170_7 deposited under accession number ATCC 98451;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fh170_7 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:13;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:13 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:13;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 30 25. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:13;
 - (b) the amino acid sequence of SEQ ID NO:13 from amino acid 142 to amino acid 314;
- (c) fragments of the amino acid sequence of SEQ ID NO:13 comprising eight consecutive amino acids of SEQ ID NO:13; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone fh170_7 deposited under accession number ATCC 98451;

the protein being substantially free from other mammalian proteins.

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- An isolated gene corresponding to the cDNA sequence of SEQ ID NO:12.
- 27. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15 from nucleotide 41 to nucleotide 550;
- (c) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone fn53_4 deposited under accession number ATCC 98451;
 - (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fn53_4 deposited under accession number ATCC 98451;
- (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fn53_4 deposited under accession number ATCC 98451;
 - (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fn53_4 deposited under accession number ATCC 98451;
 - (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:16;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:16 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:16;
 - (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
 - (k) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(h).
 - 28. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:16;
 - (b) the amino acid sequence of SEQ ID NO:16 from amino acid 40 to amino acid 170;
- (c) fragments of the amino acid sequence of SEQ ID NO:16 comprising eight consecutive amino acids of SEQ ID NO:16; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone fn53_4 deposited under accession number ATCC 98451;

the protein being substantially free from other mammalian proteins.

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- $\,$ 29. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:15, SEQ ID NO:14, and SEQ ID NO:17 .
 - 30. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 84 to nucleotide 404;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 78 to nucleotide 493;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fq505_4 deposited under accession number ATCC 98451;
- 15 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fq505_4 deposited under accession number ATCC 98451;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fq505_4 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
 of clone fq505_4 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:19;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:19 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:19;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of(h) or (i) above; and
- 30 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 31. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:19;
 - (b) the amino acid sequence of SEQ ID NO:19 from amino acid 23 to amino acid 107;

- (c) fragments of the amino acid sequence of SEQ ID NO:19 comprising eight consecutive amino acids of SEQ ID NO:19; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fq505_4 deposited under accession number ATCC 98451;
- 5 the protein being substantially free from other mammalian proteins.

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- 32. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:18.
- 33. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 1439 to nucleotide 1744;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 1241 to nucleotide 1754;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fw13_9 deposited under accession number ATCC 98451;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fw13_9 deposited under accession number ATCC 98451;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:21;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:21 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:21;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 34. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:21;

- (b) the amino acid sequence of SEQ ID NO:21 from amino acid 1 to amino acid 57;
- (c) fragments of the amino acid sequence of SEQ ID NO:21 comprising eight consecutive amino acids of SEQ ID NO:21; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fw13_9 deposited under accession number ATCC 98451; the protein being substantially free from other mammalian proteins.

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- 35. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:20.
- 36. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22 from nucleotide 47 to nucleotide 919;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:22 from nucleotide 124 to nucleotide 452;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gg619_2 deposited under accession number ATCC 98451;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA
 20 insert of clone gg619_2 deposited under accession number ATCC 98451;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gg619_2 deposited under accession number ATCC 98451;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gg619_2 deposited under accession number ATCC 98451;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:23;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:23 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:23;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 37. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:23;
- (b) the amino acid sequence of SEQ ID NO:23 from amino acid 27 to amino acid 135;
- (c) fragments of the amino acid sequence of SEQ ID NO:23 comprising eight consecutive amino acids of SEQ ID NO:23; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone gg619_2 deposited under accession number ATCC 98451; the protein being substantially free from other mammalian proteins.
- 3810 An isolated gene corresponding to the cDNA sequence of SEQ ID NO:22.

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- 39. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 2178 to nucleotide 2513;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 2364 to nucleotide 2513;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 1980 to nucleotide 2311;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cl181_3 deposited under accession number ATCC 98456;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cl181_3 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:36;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:36 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:36;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 40. The polynucleotide of claim 38 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 41. A host cell transformed with the polynucleotide of claim 39.
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- 42. The host cell of claim 41, wherein said cell is a mammalian cell.
- 43. A process for producing a protein encoded by the polynucleotide of claim 39, which process comprises:
- 10 (a) growing a culture of the host cell of claim 41 in a suitable culture medium; and
 - (b) purifying said protein from the culture.
 - 44. A protein produced according to the process of claim 43.

- 45. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:47;
- (b) the amino acid sequence of SEQ ID NO:47 from amino acid 1 to amino 20 acid 67;
 - (c) fragments of the amino acid sequence of SEQ ID NO:47 comprising eight consecutive amino acids of SEQ ID NO:47; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cl181_3 deposited under accession number ATCC 98456;
- 25 the protein being substantially free from other mammalian proteins.
 - 46. The protein of claim 45, wherein said protein comprises the amino acid sequence of SEQ ID NO:47.
- 30 47. The protein of claim 45, wherein said protein comprises the amino acid sequence of SEQ ID NO:36 from amino acid 1 to amino acid 67.
 - 48. A composition comprising the protein of claim 45 and a pharmaceutically acceptable carrier.

- 49. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:35.
- 50. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 207 to nucleotide 893;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 1 to nucleotide 527;

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- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cr1044_1 deposited under accession number ATCC 98456;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cr1044_1 deposited under accession number ATCC 98456;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cr1044_1 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cr1044_1 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:38;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:38 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:38;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 51. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:38;
 - (b) the amino acid sequence of SEQ ID NO:38 from amino acid 1 to amino acid 107;
 - (c) fragments of the amino acid sequence of SEQ ID NO:38 comprising eight consecutive amino acids of SEQ ID NO:38; and
- (d) the amino acid sequence encoded by the cDNA insert of clone cr1044_1
 35 deposited under accession number ATCC 98456;
 the protein being substantially free from other mammalian proteins.
 - 52. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:38.

- 53. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39 from nucleotide 77 to nucleotide 400;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39 from nucleotide 118 to nucleotide 392;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cz251_1 deposited under accession number ATCC 98456;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cz251_1 deposited under accession number ATCC 98456;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:40;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:40 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:40;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of25 (h) or (i) above; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 54. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:40;
 - (b) the amino acid sequence of SEQ ID NO:40 from amino acid 15 to amino acid 105;
- (c) fragments of the amino acid sequence of SEQ ID NO:40 comprising eight
 consecutive amino acids of SEQ ID NO:40; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cz251_1 deposited under accession number ATCC 98456; the protein being substantially free from other mammalian proteins.

- 55. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:39.
- 56. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 13 to nucleotide 501;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 1 to nucleotide 506;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dd12_7 deposited under accession number ATCC 98456;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dd12_7 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
 20 of SEQ ID NO:42;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:42 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:42;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of(h) or (i) above; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 57. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:42;
- (b) fragments of the amino acid sequence of SEQ ID NO:42 comprising eight
 35 consecutive amino acids of SEQ ID NO:8; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone dd12_7 deposited under accession number ATCC 98456; the protein being substantially free from other mammalian proteins.

- 58. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:41.
- 59. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 778 to nucleotide 1083;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 931 to nucleotide 1083;
- 10 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 802 to nucleotide 1056;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fn191_3 deposited under accession number ATCC 98456;
- 15 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fn191_3 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:44;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:44 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:44;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- 30 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 60. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:44;
 - (b) the amino acid sequence of SEQ ID NO:44 from amino acid 1 to amino acid 93;

- (c) fragments of the amino acid sequence of SEQ ID NO:44 comprising eight consecutive amino acids of SEQ ID NO:44; and
- (d) the amino acid sequence encoded by the cDNA insert of clone fn191_3 deposited under accession number ATCC 98456;
- the protein being substantially free from other mammalian proteins.

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- 61. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:43.
- 62. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 390 to nucleotide 1355;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 1384 to nucleotide 1736;
- (d) a polynucleotide comprising the nucleotide sequence of the full- length
 protein coding sequence of clone gm196_4 deposited under accession number ATCC 98456;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein
 coding sequence of clone gm196_4 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:46;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:46 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:46;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 63. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:46;

- (b) fragments of the amino acid sequence of SEQ ID NO:46 comprising eight consecutive amino acids of SEQ ID NO:46; and
- (c) the amino acid sequence encoded by the cDNA insert of clone gm196_4 deposited under accession number ATCC 98456;
- 5 the protein being substantially free from other mammalian proteins.

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- 64. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:45.
- 65. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47 from nucleotide 879 to nucleotide 1391;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47 from nucleotide 519 to nucleotide 1074;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gn114_1 deposited under accession number ATCC 98456;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gn114_1 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:48;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:48 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:48;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 35 66. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:48;

- (b) the amino acid sequence of SEQ ID NO:48 from amino acid 1 to amino acid 65;
- (c) fragments of the amino acid sequence of SEQ ID NO:48 comprising eight consecutive amino acids of SEQ ID NO:48; and
- (d) the amino acid sequence encoded by the cDNA insert of clone gn114_1 deposited under accession number ATCC 98456; the protein being substantially free from other mammalian proteins.
 - 67. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:47.
 - 68. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 225 to nucleotide 1508;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 252 to nucleotide 1508;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:15 from nucleotide 1 to nucleotide 302;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone hj968_2 deposited under accession number ATCC 98456;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hj968_2 deposited under accession number ATCC 98456;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hj968_2 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hj968_2 deposited under accession number ATCC 98456;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:50;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:50 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:50;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 35 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 69. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:50;

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- (b) the amino acid sequence of SEQ ID NO:50 from amino acid 1 to amino acid 26;
 - (c) fragments of the amino acid sequence of SEQ ID NO:50 comprising eight consecutive amino acids of SEQ ID NO:50; and
- (d) the amino acid sequence encoded by the cDNA insert of clone hj968_2
 10 deposited under accession number ATCC 98456;
 the protein being substantially free from other mammalian proteins.
 - 70. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:49.
- 15 71. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 1113 to nucleotide 1274;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 20 from nucleotide 1233 to nucleotide 1274;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 894 to nucleotide 1309;
 - (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone hk10_3 deposited under accession number ATCC 98456;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456;
 - (g) a polynucleolide comprising the nucleotide sequence of a mature protein coding sequence of clone hk10_3 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:52;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:52 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:52;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 72. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:52;

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- (b) fragments of the amino acid sequence of SEQ ID NO:52 comprising eight consecutive amino acids of SEQ ID NO:52; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone hk10_3 deposited under accession number ATCC 98456; the protein being substantially free from other mammalian proteins.
- 15 73. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:52.
 - 74. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53 20 from nucleotide 96 to nucleotide 1145;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:53 from nucleotide 109 to nucleotide 539;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hm236_1 deposited under accession number ATCC 98456;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hm236_1 deposited under accession number ATCC 98456;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:54;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:54 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:54;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

- (k) a polynucleotide which encodes a species homologue of the protein of
 (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 75. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:54;

- (b) the amino acid sequence of SEQ ID NO:54 from amino acid 6 to amino 10 acid 148;
 - (c) fragments of the amino acid sequence of SEQ ID NO:54 comprising eight consecutive amino acids of SEQ ID NO:54; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone hm236_1 deposited under accession number ATCC 98456;
- 15 the protein being substantially free from other mammalian proteins.
 - 76. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:54.
 - 77. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 185 to nucleotide 1600;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 1403 to nucleotide 1600;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67
 25 from nucleotide 1 to nucleotide 850;
 - (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone do15_4 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA
 30 insert of clone do15_4 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone do15_4 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone do15_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:68;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:2 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:2;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
 above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 78. The polynucleotide of claim 1 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - A host cell transformed with the polynucleotide of claim 78.
- 15 80. The host cell of claim 79, wherein said cell is a mammalian cell.
 - 81. A process for producing a protein encoded by the polynucleotide of claim 80, which process comprises:
- (a) growing a culture of the host cell of claim 3 in a suitable culture medium; 20 and
 - (b) purifying said protein from the culture.

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- 82. A protein produced according to the process of claim 81.
- 25 82. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:68;
 - (b) the amino acid sequence of SEQ ID NO:68 from amino acid 1 to amino acid 222;
- (c) fragments of the amino acid sequence of SEQ ID NO:68 comprising eight consecutive amino acids of SEQ ID NO:68; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone do15_4 deposited under accession number ATCC 98468; the protein being substantially free from other mammalian proteins.
 - 83. The protein of claim 82, wherein said protein comprises the amino acid sequence of SEQ ID NO:68.

- 84. The protein of claim 82, wherein said protein comprises the amino acid sequence of SEQ ID NO:68 from amino acid 1 to amino acid 222.
- 85. A composition comprising the protein of claim 82 and a 5 pharmaceutically acceptable carrier.
 - 86. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:67.
 - 87. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 47 to nucleotide 2065;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 1086 to nucleotide 1848;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dx290_1 deposited under accession number ATCC 98468;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dx290_1 deposited under accession number ATCC 98468;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
 of SEQ ID NO:70;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:70 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:70;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 88. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:70;

- (b) the amino acid sequence of SEQ ID NO:70 from amino acid 312 to amino acid 600;
- (c) fragments of the amino acid sequence of SEQ ID NO:70 comprising eight consecutive amino acids of SEQ ID NO:70; and
- (d) the amino acid sequence encoded by the cDNA insert of clone dx290_1 deposited under accession number ATCC 98468; the protein being substantially free from other mammalian proteins.
 - 89. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:69.
 - 90. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 107 to nucleotide 724;
- 15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 218 to nucleotide 724;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71
 from nucleotide 536 to nucleotide 866;
- (e) a polynucleotide comprising the nucleotide sequence of the full- length
 protein coding sequence of clone ek390_4 deposited under accession number ATCC 98468;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ek390_4 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ek390_4 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ek390_4 deposited under accession number ATCC 98468;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:72;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:72 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:72;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 91. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:72;

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- (b) the amino acid sequence of SEQ ID NO:72 from amino acid 6 to amino acid 92;
 - (c) fragments of the amino acid sequence of SEQ ID NO:72 comprising eight consecutive amino acids of SEQ ID NO:72; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ek390_4
 10 deposited under accession number ATCC 98468;
 the protein being substantially free from other mammalian proteins.
 - 92. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:71.
- 15 93. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 31 to nucleotide 1230;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 289 to nucleotide 1230;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73 from nucleotide 344 to nucleotide 1119;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er471_7 deposited under accession number ATCC 98468;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er471_7 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:74;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:74 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:74;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
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- 94. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:74;
- (b) the amino acid sequence of SEQ ID NO:74 from amino acid 111 to amino acid 363;
 - (c) fragments of the amino acid sequence of SEQ ID NO:74 comprising eight consecutive amino acids of SEQ ID NO:74; and
 - '(d) the amino acid sequence encoded by the cDNA insert of clone er471_7 deposited under accession number ATCC 98468;
- 15 the protein being substantially free from other mammalian proteins.
 - 95. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:74.
 - 96. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75 from nucleotide 62 to nucleotide 322;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:75 from nucleotide 571 to nucleotide 878;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fs40_3 deposited under accession number ATCC 98468;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fs40_3 deposited under accession number ATCC 98468;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
 35 of SEQ ID NO:76;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:76 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:76;

- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 97. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:76;

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- (b) fragments of the amino acid sequence of SEQ ID NO:76 comprising eight consecutive amino acids of SEQ ID NO:76; and
- (c) the amino acid sequence encoded by the cDNA insert of clone fs40_3 deposited under accession number ATCC 98468;
- 15 the protein being substantially free from other mammalian proteins.
 - 98. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:75.
 - 99. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77;
- 20 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 43 to nucleotide 1671;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 112 to nucleotide 1671;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:77 from nucleotide 224 to nucleotide 679;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ga63_6 deposited under accession number ATCC 98468;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ga63_6 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:78;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:78 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:78;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
 5 above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 100. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:78;

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- (b) the amino acid sequence of SEQ ID NO:78 from amino acid 62 to amino acid 212;
 - (c) fragments of the amino acid sequence of SEQ ID NO:78 comprising eight consecutive amino acids of SEQ ID NO:78; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ga63_6 deposited under accession number ATCC 98468;
- 20 the protein being substantially free from other mammalian proteins.
 - 101. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:77.
 - 102. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79 from nucleotide 17 to nucleotide 523;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79
 from nucleotide 77 to nucleotide 523;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:79 from nucleotide 1 to nucleotide 392;
 - (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone gm335_4 deposited under accession number ATCC 98468;
- 35 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gm335_4 deposited under accession number ATCC 98468;

- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:80;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:80 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:80;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 15 103. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:80;

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- (b) the amino acid sequence of SEQ ID NO:80 from amino acid 1 to amino acid 125;
- (c) fragments of the amino acid sequence of SEQ ID NO:80 comprising eight consecutive amino acids of SEQ ID NO:80; and
- (d) the amino acid sequence encoded by the cDNA insert of clone gm335_4 deposited under accession number ATCC 98468; the protein being substantially free from other mammalian proteins.
 - 104. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:79.
- 105. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81 from nucleotide 2 to nucleotide 991;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81
 from nucleotide 62 to nucleotide 991;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81 from nucleotide 2 to nucleotide 504;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone hy370_9 deposited under accession number ATCC 98468;

- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone hy370_9 deposited under accession number ATCC 98468;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468;

- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:82;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 10 acid sequence of SEQ ID NO:82 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:82;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 106. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:82;
 - (b) the amino acid sequence of SEQ ID NO:82 from amino acid 1 to amino acid 167;
- (c) fragments of the amino acid sequence of SEQ ID NO:82 comprising eight consecutive amino acids of SEQ ID NO:16; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone hy370_9 deposited under accession number ATCC 98468; the protein being substantially free from other mammalian proteins.
 - 107. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:81.108. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 77 to nucleotide 616;
- 35 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 164 to nucleotide 616;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:83 from nucleotide 1 to nucleotide 415;

- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ie47_4 deposited under accession number ATCC 98468;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ie47_4 deposited under accession number ATCC 98468;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ie47_4 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ie47_4 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:83;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:83 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:83;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one 20 of the polynucleotides specified in (a)-(j).
 - 109. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:84;

- (b) the amino acid sequence of SEQ ID NO:84 from amino acid 1 to amino acid 113;
- (c) fragments of the amino acid sequence of SEQ ID NO:84 comprising eight consecutive amino acids of SEQ ID NO:84; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ie47_4
 30 deposited under accession number ATCC 98468;
 the protein being substantially free from other mammalian proteins.
 - 110. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:84.
- 35 111. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 564 to nucleotide 2813;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 705 to nucleotide 2813;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:85 from nucleotide 793 to nucleotide 1628;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone s195_10 deposited under accession number ATCC 98468;

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- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone s195_10 deposited under accession number ATCC 98468;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence 15 of SEQ ID NO:86;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:86 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:86;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 112. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:86;
- (b) the amino acid sequence of SEQ ID NO:86 from amino acid 78 to amino 30 acid 355;
 - (c) fragments of the amino acid sequence of SEQ ID NO:86 comprising eight consecutive amino acids of SEQ ID NO:86; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone s195_10 deposited under accession number ATCC 98468;
- 35 the protein being substantially free from other mammalian proteins.
 - 113. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:85.

- 114.. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 516 to nucleotide 797;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 606 to nucleotide 797;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:97 from nucleotide 1 to nucleotide 773;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bf228_14 deposited under accession number ATCC 98482;

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- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482;
- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bf228_14 deposited under accession number ATCC 98482;
 - (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:98;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:98 having biological activity;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 115. A composition of claim 1 wherein said polynucleotide is operably linked to an expression control sequence.
 - 116. A host cell transformed with a composition of claim 115.
- The host cell of claim 116, wherein said cell is a mammalian cell.
 - 118. A process for producing a protein, which comprises:

- (a) growing a culture of the host cell of claim 117 in a suitable culture medium; and
 - (b) purifying the protein from the culture.
- 5 119. A protein produced according to the process of claim 118.
 - 120. The protein of claim 115 comprising a mature protein.
- 121. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:98;
 - (b) the amino acid sequence of SEQ ID NO:98 from amino acid 1 to amino acid 86;
 - (c) fragments of the amino acid sequence of SEQ ID NO:98; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bf228_14 deposited under accession number ATCC 98482; the protein being substantially free from other mammalian proteins.
- 122. The composition of claim 121, wherein said protein comprises the amino acid sequence of SEQ ID NO:98.
 - 123. The composition of claim 121, wherein said protein comprises the amino acid sequence of SEQ ID NO:98 from amino acid 1 to amino acid 86.
- 25 124. The composition of claim 121, further comprising a pharmaceutically acceptable carrier.
- 125. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 121.
 - 126. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:97.
- 127. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 137 to nucleotide 1240;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 1 to nucleotide 1153;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bg249_1 deposited under accession number ATCC 98482;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bg249_1 deposited under accession number ATCC 98482;
- (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bg249_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bg249_1 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:100;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:100 having biological activity;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of 20 (h) or (i) above ; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 128. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:100;

- (b) the amino acid sequence of SEQ ID NO:100 from amino acid 1 to amino acid 339;
 - (c) fragments of the amino acid sequence of SEQ ID NO:100; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bg249_1
 30 deposited under accession number ATCC 98482;
 the protein being substantially free from other mammalian proteins.
 - 129. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:99.
- 35 130. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 26 to nucleotide 301;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 104 to nucleotide 301;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 1 to nucleotide 119;

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- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bv286_1 deposited under accession number ATCC 98482;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bv286_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bv286_1 deposited under accession number ATCC 98482;
- 15 (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bv286_1 deposited under accession number ATCC 98482;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:102;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:102 having biological activity;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 25 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 131. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:102;
 - (b) the amino acid sequence of SEQ ID NO:102 from amino acid 1 to amino acid 31;
 - (c) fragments of the amino acid sequence of SEQ ID NO:102; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bv286_1
 35 deposited under accession number ATCC 98482;
 the protein being substantially free from other mammalian proteins.

- 132. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:101.
- 133. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 663 to nucleotide 755;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 10 from nucleotide 1 to nucleotide 850;
 - (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone co36_1 deposited under accession number ATCC 98482;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone co36_1 deposited under accession number ATCC 98482;
 - (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone co36_1 deposited under accession number ATCC 98482;
- (g) a polynucleotide encoding the mature protein encoded by the cDNA
 20 insert of clone co36_1 deposited under accession number ATCC 98482;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:104;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:104 having biological activity;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 134. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:104;

- 35 (b) the amino acid sequence of SEQ ID NO:104 from amino acid 1 to amino acid 22;
 - (c) fragments of the amino acid sequence of SEQ ID NO:104; and

- (d) the amino acid sequence encoded by the cDNA insert of clone co36_1 deposited under accession number ATCC 98482; the protein being substantially free from other mammalian proteins.
- 5 135. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:103.
 - 136. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 127 to nucleotide 783;

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- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 172 to nucleotide 783;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 7 to nucleotide 462;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cp116_1 deposited under accession number ATCC 98482;
- 20 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;
 - (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone cp116_1 deposited under accession number ATCC 98482;
 - (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:106;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 30 acid sequence of SEQ ID NO:106 having biological activity;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)above;
 - (l) $_{\cdot}$ a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 35 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 137. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:106;
- (b) the amino acid sequence of SEQ ID NO:106 from amino acid 1 to amino 5 acid 112;
 - (c) fragments of the amino acid sequence of SEQ ID NO:106; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cp116_1 deposited under accession number ATCC 98482;

the protein being substantially free from other mammalian proteins.

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- 10 138. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:105.
 - 139. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:108;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:108 from nucleotide 231 to nucleotide 533;
 - (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cw1195_2 deposited under accession number ATCC 98482;
 - (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482;
 - (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone cw1195_2 deposited under accession number ATCC 98482;
 - (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482;
 - (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:109;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:109 having biological activity;
 - (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
 - (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).

- 140. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:109;

- (b) fragments of the amino acid sequence of SEQ ID NO:109; and
- (c) the amino acid sequence encoded by the cDNA insert of clone cw1195_2 deposited under accession number ATCC 98482; the protein being substantially free from other mammalian proteins.
- 141. An isolated gene corresponding to the cDNA sequence of SEQ ID 10 NO:108, SEQ ID NO:107 or SEQ ID NO:110.
 - 142. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111;
- 15 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111 from nucleotide 645 to nucleotide 782;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:111 from nucleotide 10 to nucleotide 773;
- (d) a polynucleotide comprising the nucleotide sequence of the full- length
 20 protein coding sequence of clone fh13_10 deposited under accession number ATCC 98482;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- (f) a polynucleotide comprising the nucleotide sequence of the mature
 protein coding sequence of clone fh13_10 deposited under accession number ATCC 98482;
 - (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence30 of SEQ ID NO:112;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:112 having biological activity;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of(h) or (i) above; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

- 143. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:112;
- 5 (b) the amino acid sequence of SEQ ID NO:112 from amino acid 1 to amino acid 43;
 - (c) fragments of the amino acid sequence of SEQ ID NO:112; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone fh13_10 deposited under accession number ATCC 98482;
- 10 the protein being substantially free from other mammalian proteins.

- 144. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:111.
- 15 145. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113
 from nucleotide 94 to nucleotide 216;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113 from nucleotide 160 to nucleotide 216;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:113 from nucleotide 20 to nucleotide 193;
- (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone gc57_4 deposited under accession number ATCC 98482:
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gc57_4 deposited under accession number ATCC 98482;
 - (g) a polynucleotide comprising the nucleotide sequence of the mature
 protein coding sequence of clone gc57_4 deposited under accession number ATCC 98482;
 - (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone gc57_4 deposited under accession number ATCC 98482;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:114;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:114 having biological activity;

- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 146. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:114;

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- (b) the amino acid sequence of SEQ ID NO:114 from amino acid 1 to amino acid 33;
 - (c) fragments of the amino acid sequence of SEQ ID NO:114; and
- (d) the amino acid sequence encoded by the cDNA insert of clone gc57_4
 15 deposited under accession number ATCC 98482;
 the protein being substantially free from other mammalian proteins.
 - 147. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:113.
 - 148. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115
 25 from nucleotide 2 to nucleotide 943;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:115 from nucleotide 2 to nucleotide 670;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone h1165_3 deposited under accession number ATCC 98482;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;
 - (f) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone h1165_3 deposited under accession number ATCC 98482;
 - (g) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;

- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:116;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:116 having biological activity;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 149. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:116;
- 15 (b) the amino acid sequence of SEQ ID NO:116 from amino acid 1 to amino acid 223;
 - (c) fragments of the amino acid sequence of SEQ ID NO:116; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone h1165_3 deposited under accession number ATCC 98482;
- 20 the protein being substantially free from other mammalian proteins.

- $\,$ 150. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:115.
- 25 151. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 1242 to nucleotide 1457;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 1326 to nucleotide 1457;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:117 from nucleotide 869 to nucleotide 1544;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone hb752_1 deposited under accession number ATCC 98482;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;

- (g) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone hb752_1 deposited under accession number ATCC 98482;
- (h) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:118;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:118 having biological activity;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 152. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:118;

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- (b) the amino acid sequence of SEQ ID NO:118 from amino acid 1 to amino acid 69;
 - (c) fragments of the amino acid sequence of SEQ ID NO:118; and
- (d) the amino acid sequence encoded by the cDNA insert of clone hb752_1 deposited under accession number ATCC 98482;
- 25 the protein being substantially free from other mammalian proteins.
 - 153. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:117.
 - 154. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129 from nucleotide 864 to nucleotide 1340;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:129 from nucleotide 1 to nucleotide 1175;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone bi127_5 deposited under accession number ATCC 98501;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501;

- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bi127_5 deposited under accession number ATCC 98501;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:130;

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- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:130 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:130;
- 10 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 155. The polynucleotide of claim 154 wherein said polynucleotide is operably linked to at least one expression control sequence.
- 20 156. A host cell transformed with the polynucleotide of claim 155.
 - 157. The host cell of claim 3, wherein said cell is a mammalian cell.
 - 158. A process for producing a protein encoded by the polynucleotide of claim 155, which process comprises:
 - (a) growing a culture of the host cell of claim 156 in a suitable culture medium; and
 - (b) purifying said protein from the culture.
 - 159. A protein produced according to the process of claim 158.
 - Λ protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:130;
- (b) the amino acid sequence of SEQ ID NO:130 from amino acid 1 to amino acid 104;
 - (c) fragments of the amino acid sequence of SEQ ID NO:130 comprising eight consecutive amino acids of SEQ ID NO:130; and

- (d) the amino acid sequence encoded by the cDNA insert of clone bi127_5 deposited under accession number ATCC 98501; the protein being substantially free from other mammalian proteins.
- 5 161. The protein of claim 160, wherein said protein comprises the amino acid sequence of SEQ ID NO:130.
 - 162. The protein of claim 160, wherein said protein comprises the amino acid sequence of SEQ ID NO:130 from amino acid 1 to amino acid 104.
 - 163. A composition comprising the protein of claim 160 and a pharmaceutically acceptable carrier.
- 164. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:129.
 - 165. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131
 20 from nucleotide 46 to nucleotide 738;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131 from nucleotide 346 to nucleotide 738;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:131 from nucleotide 688 to nucleotide 1425;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bl194_2 deposited under accession number ATCC 98501;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bl194_2 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bl194_2 deposited under accession number ATCC 98501;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bl194_2 deposited under accession number ATCC 98501;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence
 of SEQ ID NO:132;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:132 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:132;

- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- 5 (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 166. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:132;

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- (b) the amino acid sequence of SEQ ID NO:132 from amino acid 1 to amino acid 171;
- (c) fragments of the amino acid sequence of SEQ ID NO:132 comprising eight consecutive amino acids of SEQ ID NO:132; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bl194_2 deposited under accession number ATCC 98501; the protein being substantially free from other mammalian proteins.
- 167. An isolated gene corresponding to the cDNA sequence of SEQ ID 20 NO:131.
 - 168. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 234 to nucleotide 1235;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 291 to nucleotide 1235;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 209 to nucleotide 1050;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cc130_1 deposited under accession number ATCC 98501;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cc130_1 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cc130_1 deposited under accession number ATCC 98501;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cc130_1 deposited under accession number ATCC 98501;

- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:134;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:134 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:134;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 169. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:134;

- (b) the amino acid sequence of SEQ ID NO:134 from amino acid 1 to amino acid 272;
- (c) fragments of the amino acid sequence of SEQ ID NO:134 comprising eight consecutive amino acids of SEQ ID NO:134; and
- 20 (d) the amino acid sequence encoded by the cDNA insert of clone cc130_1 deposited under accession number ATCC 98501; the protein being substantially free from other mammalian proteins.
- 170. An isolated gene corresponding to the cDNA sequence of SEQ ID 25 NO:133.
 - 171. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135 30 from nucleotide 1554 to nucleotide 1784;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135 from nucleotide 1659 to nucleotide 1784;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:7 from nucleotide 1508 to nucleotide 1865;
- (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone ch582_1 deposited under accession number ATCC 98501;

- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ch582_1 deposited under accession number ATCC 98501;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ch582_1 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ch582_1 deposited under accession number ATCC 98501;

- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:136;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:136 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:136;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 172. A protein comprising an amino acid sequence selected from the group 20 consisting of:
 - (a) the amino acid sequence of SEQ ID NO:136;
 - (b) fragments of the amino acid sequence of SEQ ID NO:136 comprising eight consecutive amino acids of SEQ ID NO:136; and
- (c) the amino acid sequence encoded by the cDNA insert of clone ch582_1
 25 deposited under accession number ATCC 98501;
 the protein being substantially free from other mammalian proteins.
 - 173. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:135.
 - 174. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 from nucleotide 1375 to nucleotide 1605;
- 35 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 from nucleotide 1107 to nucleotide 1539;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cq294_14 deposited under accession number ATCC 98501;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cq294_14 deposited under accession number ATCC 98501;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cq294_14 deposited under accession number ATCC 98501;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cq294_14 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:138;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:138 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:138;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 175. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:138;

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- (b) the amino acid sequence of SEQ ID NO:138 from amino acid 1 to amino acid 55;
 - (c) fragments of the amino acid sequence of SEQ ID NO:138 comprising eight consecutive amino acids of SEQ ID NO:138; and
- (d) the amino acid sequence encoded by the cDNA insert of clone cq294_14
 30 deposited under accession number ATCC 98501;

the protein being substantially free from other mammalian proteins.

- 176. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:137.
- 177. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 66 to nucleotide 1880;

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 1 to nucleotide 581;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dd454_1 deposited under accession number ATCC 98501;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dd454_1 deposited under accession number ATCC 98501;
- 10 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:140;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:140 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:140;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of 20 (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 178. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:140;

- (b) the amino acid sequence of SEQ ID NO:140 from amino acid 1 to amino acid 172;
- (c) fragments of the amino acid sequence of SEQ ID NO:140 comprising eight consecutive amino acids of SEQ ID NO:140; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone dd454_1 deposited under accession number ATCC 98501; the protein being substantially free from other mammalian proteins.
- 35 179. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:139.
 - 180. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 462 to nucleotide 3170;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 1188 to nucleotide 1517;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone du157_12 deposited under accession number ATCC 98724;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone du157_12 deposited under accession number ATCC 98724;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone du157_12 deposited under accession number ATCC 98724;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone du157_12 deposited under accession number ATCC 98724;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:142;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:142 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:142;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 181. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:142;

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- (b) the amino acid sequence of SEQ ID NO:14 from amino acid 251 to amino acid 352;
- (c) fragments of the amino acid sequence of SEQ ID NO:142 comprising eight consecutive amino acids of SEQ ID NO:142; and
- (d) the amino acid sequence encoded by the cDNA insert of clone du157_12
 35 deposited under accession number ATCC 98724;
 the protein being substantially free from other mammalian proteins.

- 182. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:141.
- 183. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 865 to nucleotide 1158;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 1108 to nucleotide 1158;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 1 to nucleotide 764;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone du372_1 deposited under accession number ATCC 98501;
- 15 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone du372_1 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone du372_1 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
 of clone du372_1 deposited under accession number ATCC 98501;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:144;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:144 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:144;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- of the polynucleotide specified in (a)-(j).
 - 184. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:144;
 - (b) the amino acid sequence of SEQ ID NO:144 from amino acid 69 to amino acid 98;

- (c) fragments of the amino acid sequence of SEQ ID NO:144 comprising eight consecutive amino acids of SEQ ID NO:144; and
- (d) the amino acid sequence encoded by the cDNA insert of clone du372_1 deposited under accession number ATCC 98501;
- 5 the protein being substantially free from other mammalian proteins.
 - 185. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:143.
- 10 186. An isolated polynucleotide selected from the group consisting of:

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- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 32 to nucleotide 586;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 92 to nucleotide 586;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 1 to nucleotide 481;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej90_5 deposited under accession number ATCC 98501;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej90_5 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:146;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:146 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:146;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 187. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:146;
- (b) the amino acid sequence of SEQ ID NO:146 from amino acid 1 to amino acid 150;
 - (c) fragments of the amino acid sequence of SEQ ID NO:146 comprising eight consecutive amino acids of SEQ ID NO:146; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ej90_5 deposited under accession number ATCC 98501;
- 10 the protein being substantially free from other mammalian proteins.
 - 188. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:145.
- 15 189. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 281 to nucleotide 1786;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147
 20 from nucleotide 332 to nucleotide 1786;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 1 to nucleotide 574;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ic2_6 deposited under accession number ATCC 98501;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ic2_6 deposited under accession number ATCC 98501;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ic2_6 deposited under accession number ATCC 98501;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
 30 of clone ic2_6 deposited under accession number ATCC 98501;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:148;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:148 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:148;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 190. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:148;

- (b) the amino acid sequence of SEQ ID NO:148 from amino acid 1 to amino acid 98;
 - (c) fragments of the amino acid sequence of SEQ ID NO:148 comprising eight consecutive amino acids of SEQ ID NO:148; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ic2_6 deposited under accession number ATCC 98501;
- 15 the protein being substantially free from other mammalian proteins.
- 191. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:147.
 - 192. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159;
- 20 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159 from nucleotide 69 to nucleotide 908;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:159 from nucleotide 270 to nucleotide 908;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length
 protein coding sequence of clone bn97_1 deposited under accession number ATCC 98535;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bn97_1 deposited under accession number ATCC 98535;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:160;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:160 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:160;

- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- 5 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 193. The polynucleotide of claim 191 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 194. A host cell transformed with the polynucleotide of claim 192.
 - 195. The host cell of claim 194, wherein said cell is a mammalian cell.
- 196. A process for producing a protein encoded by the polynucleotide of claim 193, which process comprises:
 - (a) growing a culture of the host cell of claim 3 in a suitable culture medium; and
 - (b) purifying said protein from the culture.

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- 20 197. A protein produced according to the process of claim 196.
 - 198. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:160;
 - (b) the amino acid sequence of SEQ ID NO:160 from amino acid 1 to amino acid 83;
 - (c) fragments of the amino acid sequence of SEQ ID NO:160 comprising eight consecutive amino acids of SEQ ID NO:160; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bn97_1 deposited under accession number ATCC 98535;
 - the protein being substantially free from other mammalian proteins.
 - 199. The protein of claim 198, wherein said protein comprises the amino acid sequence of SEQ ID NO:2.
 - 200. The protein of claim 198, wherein said protein comprises the amino acid sequence of SEQ ID NO:2 from amino acid 1 to amino acid 83.

- 201. A composition comprising the protein of claim 198 and a pharmaceutically acceptable carrier.
 - 202. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:1.

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- 203. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 562 to nucleotide 777;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 236 to nucleotide 673;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bn268_11 deposited under accession number ATCC 98535;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bn268_11 deposited under accession number ATCC 98535;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bn268_11 deposited under accession number ATCC 98535;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
 of clone bn268_11 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:162;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:162 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:162;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- 30 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 204. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:162;
 - (b) the amino acid sequence of SEQ ID NO:162 from amino acid 1 to amino acid 37;

- (c) fragments of the amino acid sequence of SEQ ID NO:162 comprising eight consecutive amino acids of SEQ ID NO:162; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bn268_11 deposited under accession number ATCC 98535;
- 5 the protein being substantially free from other mammalian proteins.
 - 205. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:161.
- 10 206. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 286 to nucleotide 1686;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 544 to nucleotide 1686;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:161 from nucleotide 365 to nucleotide 1160;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cb96_10 deposited under accession number ATCC 98535;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cb96_10 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:164;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:164 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:164;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 207. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:164;

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- (b) the amino acid sequence of SEQ ID NO:164 from amino acid 28 to amino acid 395;
 - (c) fragments of the amino acid sequence of SEQ ID NO:164 comprising eight consecutive amino acids of SEQ ID NO:164; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cb96_10 deposited under accession number ATCC 98535;
- 10 the protein being substantially free from other mammalian proteins.
 - 208. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:163.
- 15 209. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 99 to nucleotide 1049;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 20 from nucleotide 222 to nucleotide 1049;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 632 to nucleotide 998;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cb213_11 deposited under accession number ATCC 98535;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cb213_11 deposited under accession number ATCC 98535;
- 30 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:166;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino
 acid sequence of SEQ ID NO:166 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:166;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 210. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:166;

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- (b) the amino acid sequence of SEQ ID NO:166 from amino acid 187 to amino acid 300;
 - (c) fragments of the amino acid sequence of SEQ ID NO:166 comprising eight consecutive amino acids of SEQ ID NO:166; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cb213_11 deposited under accession number ATCC 98535;
- the protein being substantially free from other mammalian proteins.
 - 211. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:165.
- 20 212. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 3003 to nucleotide 3137;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:16725 from nucleotide 3072 to nucleotide 3137;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 2713 to nucleotide 3114;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cj457_4 deposited under accession number ATCC 98535;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cj457_4 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:168;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:168 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:168;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
 - 213. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:168;

- (b) the amino acid sequence of SEQ ID NO:168 from amino acid 1 to amino acid 37;
 - (c) fragments of the amino acid sequence of SEQ ID NO:168 comprising eight consecutive amino acids of SEQ ID NO:168; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone cj457_4 deposited under accession number ATCC 98535;
- 20 the protein being substantially free from other mammalian proteins.
 - 214. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:167.
 - 215. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169 from nucleotide 284 to nucleotide 1357;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169
 30 from nucleotide 603 to nucleotide 1233;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cz653_11 deposited under accession number ATCC 98535;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cz653_11 deposited under accession number ATCC 98535;

- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:170;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:170 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:170;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 10 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 15 216. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:170;

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- (b) the amino acid sequence of SEQ ID NO:170 from amino acid 147 to amino acid 358;
- (c) fragments of the amino acid sequence of SEQ ID NO:170 comprising eight consecutive amino acids of SEQ ID NO:170; and
- (d) the amino acid sequence encoded by the cDNA insert of clone cz653_11 deposited under accession number ATCC 98535; the protein being substantially free from other mammalian proteins.
- 217. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:169.
- 218. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 621 to nucleotide 1763;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 1461 to nucleotide 1763;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dx138_4 deposited under accession number ATCC 98535;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dx138_4 deposited under accession number ATCC 98535;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:172;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:172 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:172;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 219. A protein comprising an amino acid sequence selected from the group 20 consisting of:
 - (a) the amino acid sequence of SEQ ID NO:172;

- (b) the amino acid sequence of SEQ ID NO:172 from amino acid 83 to amino acid 229
- (c) fragments of the amino acid sequence of SEQ ID NO:172 comprising eight consecutive amino acids of SEQ ID NO:172; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone dx138_4 deposited under accession number ATCC 98535; the protein being substantially free from other mammalian proteins.
- 30 220. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:171.
 - 221. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173;
- 35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 119 to nucleotide 295;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 191 to nucleotide 295;

- (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone ij167_5 deposited under accession number ATCC 98535;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ij167_5 deposited under accession number ATCC 98535;

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- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ij167_5 deposited under accession number ATCC 98535;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ij167_5 deposited under accession number ATCC 98535;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:174;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:174 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:174;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above:
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 222. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:174;
 - (b) the amino acid sequence of SEQ ID NO:174 from amino acid 1 to amino acid 26;
 - (c) fragments of the amino acid sequence of SEQ ID NO:174 comprising eight consecutive amino acids of SEQ ID NO:174; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ij167_5
 30 deposited under accession number ATCC 98535;
 the protein being substantially free from other mammalian proteins.
 - 223. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:173.
 - 224. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183 from nucleotide 25 to nucleotide 1458:

- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:183 from nucleotide 21 to nucleotide 730;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bd107_16 deposited under accession number ATCC 98898:
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bd107_16 deposited under accession number ATCC 98898;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;

- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:184;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:184 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:184;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of 20 (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 225. The polynucleotide of claim 224 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 226. A host cell transformed with the polynucleotide of claim 225.
 - 227. The host cell of claim 226, wherein said cell is a mammalian cell.
- 30 228. A process for producing a protein encoded by the polynucleotide of claim 225, which process comprises:
 - (a) growing a culture of the host cell of claim 226 in a suitable culture medium; and
 - (b) purifying said protein from the culture.
 - 229. A protein produced according to the process of claim 228.

- 230. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:184;
- (b) the amino acid sequence of SEQ ID NO:184 from amino acid 2 to amino acid 118:
 - (c) fragments of the amino acid sequence of SEQ ID NO:184 comprising eight consecutive amino acids of SEQ ID NO:184; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bd107_16 deposited under accession number ATCC 98898;
- 10 the protein being substantially free from other mammalian proteins.

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- 231. The protein of claim 230, wherein said protein comprises the amino acid sequence of SEQ ID NO:184.
- 15 232. The protein of claim 230, wherein said protein comprises the amino acid sequence of SEQ ID NO:184 from amino acid 2 to amino acid 118.
 - 233. A composition comprising the protein of claim 230 and a pharmaceutically acceptable carrier.
 - 234. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:183.
 - 235. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185 from nucleotide 6 to nucleotide 977;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:185 from nucleotide 87 to nucleotide 977;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 8 to nucleotide 630;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bm41_7 deposited under accession number ATCC 98898;
- 35 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bm41_7 deposited under accession number ATCC 98898;

- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:186;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:186 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:186;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 10 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 15 236. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:186;

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- (b) the amino acid sequence of SEQ ID NO:186 from amino acid 211 to amino acid 315;
- (c) fragments of the amino acid sequence of SEQ ID NO:186 comprising eight consecutive amino acids of SEQ ID NO:186; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bm41_7 deposited under accession number ATCC 98898; the protein being substantially free from other mammalian proteins.
- 237. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:185.
- 238. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187 from nucleotide 168 to nucleotide 962;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:187 from nucleotide 351 to nucleotide 962;
- 35 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone br342_11 deposited under accession number ATCC 98551;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone br342_11 deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:188;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:188 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:188;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 239. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:188;

- (b) the amino acid sequence of SEQ ID NO:188 from amino acid 1 to amino acid 78;
- (c) fragments of the amino acid sequence of SEQ ID NO:188 comprising eight consecutive amino acids of SEQ ID NO:188; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone br342_11 deposited under accession number ATCC 98551; the protein being substantially free from other mammalian proteins.
- 30 240. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:187.
 - 241. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:189;
- 35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:189 from nucleotide 134 to nucleotide 493;

- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej258_11 deposited under accession number ATCC 98551;
- (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej258_11 deposited under accession number ATCC 98551;
 - (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej258_11 deposited under accession number ATCC 98551;
 - (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej258_11 deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:190;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:190 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:190;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
- (k) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(h).
 - 242. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:190;

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- (b) the amino acid sequence of SEQ ID NO:190 from amino acid 1 to amino acid 64;
- (c) fragments of the amino acid sequence of SEQ ID NO:190.comprising eight consecutive amino acids of SEQ ID NO:190; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ej258_11
 30 deposited under accession number ATCC 98551;
 the protein being substantially free from other mammalian proteins.
 - $\,$ 243. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:189.
 - 244. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191.

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191 from nucleotide 14 to nucleotide 406;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:191 from nucleotide 62 to nucleotide 406;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone k232_2x deposited under accession number ATCC 98551:

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- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone k232_2x deposited under accession number ATCC 98551;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:192;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:192 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:192;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 245. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:192;
- (b) the amino acid sequence of SEQ ID NO:192 from amino acid 1 to amino 30 acid 81;
 - (c) fragments of the amino acid sequence of SEQ ID NO:192 comprising eight consecutive amino acids of SEQ ID NO:192; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone k232_2x deposited under accession number ATCC 98551;
- 35 the protein being substantially free from other mammalian proteins.
 - 246. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:191.

- 247. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:193;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:193 from nucleotide 580 to nucleotide 816;
- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone lf307_5 deposited under accession number ATCC 98551:

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- (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551;
- (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone lf307_5 deposited under accession number ATCC 98551;
- (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551;
- (g) a polynucleotide encoding a protein comprising the amino acid sequenceof SEQ ID NO:194;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:194 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:194;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above ; and
 - (k) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(h).
 - 248. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:194;
- (b) fragments of the amino acid sequence of SEQ ID NO:194 comprising eight consecutive amino acids of SEQ ID NO:194; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone lf307_5 deposited under accession number ATCC 98551; the protein being substantially free from other mammalian proteins.
- 249. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:193 and SEQ ID NO:195.
 - 250. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 127 to nucleotide 627;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 250 to nucleotide 627;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone lr204_1 deposited under accession number ATCC 98551;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone lr204_1 deposited under accession number ATCC 98551;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone lr204_1 deposited under accession number ATCC 98551;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone lr204_1 deposited under accession number ATCC 98551;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:197;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:197 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:197;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
 - 251. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:197;

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- (b) the amino acid sequence of SEQ ID NO:197 from amino acid 23 to amino acid 106;
- (c) fragments of the amino acid sequence of SEQ ID NO:197 comprising eight consecutive amino acids of SEQ ID NO:197; and
- (d) the amino acid sequence encoded by the cDNA insert of clone lr204_1 deposited under accession number ATCC 98551;
 - the protein being substantially free from other mammalian proteins.
- 252. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:196.

- 253. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:207;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095;
- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bf227_8 deposited under accession number ATCC 98580;

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- (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580;
- 10 (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bf227_8 deposited under accession number ATCC 98580;
 - (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580;
 - (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:208;
 - (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:208 having biological activity;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
 - (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
 - (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).
 - 254. The polynucleotide of claim 253 wherein said polynucleotide is operably linked to at least one expression control sequence.
 - 255. A host cell transformed with the polynucleotide of claim 254.
 - 256. The host cell of claim 255, wherein said cell is a mammalian cell.
 - 257. A process for producing a protein encoded by the polynucleotide of claim 254, which process comprises:
- 35 (a) growing a culture of the host cell of claim 255 in a suitable culture medium; and
 - (b) purifying said protein from the culture.

- 258. A protein produced according to the process of claim 257.
- 259. An isolated polynucleotide encoding the protein of claim 258.
- 5 260. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:208;

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- (b) the amino acid sequence of SEQ ID NO:208 from amino acid 1 to amino acid 34;
 - (c) fragments of the amino acid sequence of SEQ ID NO:208; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bf227_8 deposited under accession number ATCC 98580; the protein being substantially free from other mammalian proteins.
- 15 261. The protein of claim 260, wherein said protein comprises the amino acid sequence of SEQ ID NO:208.
 - 262. The protein of claim 261, wherein said protein comprises the amino acid sequence of SEQ ID NO:4 from amino acid 1 to amino acid 34.
 - 263. A composition comprising the protein of claim 261 and a pharmaceutically acceptable carrier.
- 264. A method for preventing, treating or ameliorating a medical condition 25 which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 263.
 - 265. A process for producing an isolated polynucleotide, wherein the process is selected from the group consisting of:
 - (a) a process comprising the steps of:
 - (i) preparing one or more polynucleotide probes that hybridize in 6X SSC at 65 degrees C to a nucleotide sequence selected from the group consisting of:
 - (aa) SEQ ID NO:207, but excluding the poly(A) tail at the 3' end of SEQ ID NO:207; and
- 35 (ab) the nucleotide sequence of the cDNA insert of clone bf227_8 deposited under ATCC 98580;
 - (ii) hybridizing said probe(s) to human DNA; and
 - (iii) isolating the DNA polynucleotide detected with the probe(s);

and

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- (b) a process comprising the steps of:
- (i) preparing one or more polynucleotide primers that hybridize in 6X SSC at 65 degrees C to a nucleotide sequence selected from the group consisting of:
- (ba) SEQ ID NO:207, but excluding the poly(A) tail at the 3' end of SEQ ID NO:207; and
- (bb) the nucleotide sequence of the cDNA insert of clone bf227_8 deposited under ATCC 98580;
 - (ii) hybridizing said primer(s) to human DNA;
 - (iii) amplifying human DNA sequences; and
 - (iv) isolating the polynucleotide product of step (b)(iii).
- 266. An isolated polynucleotide produced according to the process of claim 265, wherein the nucleotide sequence of said isolated polynucleotide corresponds to the cDNA sequence of SEQ ID NO:207, and extends contiguously from a nucleotide sequence corresponding to the 5' end of SEQ ID NO:207 to a nucleotide sequence corresponding to the 3' end of SEQ ID NO:207 but excluding the poly(A) tail at the 3' end of SEQ ID NO:207.
- 267. An isolated polynucleotide produced according to the process of claim 265, wherein the nucleotide sequence of said isolated polynucleotide corresponds to the cDNA sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095, and extends contiguously from a nucleotide sequence corresponding to the 5' end of said sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095, to a nucleotide sequence corresponding to the 3' end of said sequence of SEQ ID NO:207 from nucleotide 946 to nucleotide 1095.
 - 268. A composition comprising an isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:209;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:209 from nucleotide 183 to nucleotide 911;
 - (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bh157_7 deposited under accession number ATCC 98580;
 - (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;

- (e) a polynucleotide comprising the nucleotide sequence of the mature protein coding sequence of clone bh157_7 deposited under accession number ATCC 98580;
- (f) a polynucleotide encoding the mature protein encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;
 - (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:210;
- (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:210 having biological activity;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
- (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).
 - 269. A composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:210;

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- (b) the amino acid sequence of SEQ ID NO:210 from amino acid 1 to amino acid 76;
 - (c) fragments of the amino acid sequence of SEQ ID NO:210; and
- (d) the amino acid sequence encoded by the cDNA insert of clone bh157_7 deposited under accession number ATCC 98580;
- 25 the protein being substantially free from other mammalian proteins.